S.
CORPORATE SOURCE: Dep. Chem., Univ. Colorado, Boulder, CO, 80309, USA
SOURCE: Journal of Organic Chemistry (1983), 48(22), 4087-96
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:174899

AB Approaches to the oxidative decyanation of secondary nitriles to ketones are discussed. A general method was developed which involves the preparation of α-hydroperoxy nitriles by direct oxygenation of anions of secondary nitriles and subsequent reductive hydrolysis with SnCl2 followed by NaOH. The procedure was used to convert various alkyl- and aryl-substituted secondary nitriles as well as α,β-unsatd. nitriles into corresponding ketones in good yields.

IT 17339-74-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 17339-74-1 HCAPLUS

CN Ethanone, 1-(1-cycloocten-1-yl)- (CA INDEX NAME)


CC 21-2 (General Organic Chemistry)

ST oxidn decyanation nitrile; ketone aliph from vinyl

IT 57-83-0P, preparation 92-91-1P 99-91-2P 100-06-1P 102-04-5P
103-79-7P 111-13-7P 403-42-9P 577-16-2P 611-94-9P
694-98-4P 712-50-5P 823-76-7P 941-98-0P 1051-35-0P
1144-74-7P 1589-62-4P 1624-73-3P 2050-07-9P 2235-83-8P
4556-09-8P 5407-91-0P 6008-36-2P 6372-63-0P 14377-11-8P
17339-74-1P 21321-91-5P 25870-62-6P 37608-93-8P
42827-59-8P 54321-44-7P 56922-88-4P 60727-68-6P 60727-69-7P
60727-75-5P 60727-76-6P 61058-97-7P 62623-50-1P 63859-55-2P
65938-08-1P 66917-82-6P 71720-43-9P 87184-41-6P 87184-52-9P
87184-53-0P 87184-54-1P 87184-55-2P 87184-58-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

=> d 145 ibib abs hitstr hitind 1-3

L45 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:241327 HCAPLUS Full-text
DOCUMENT NUMBER: 143:459780
TITLE: Use of cyclic allylic bromides in the SnCl2/Cu-mediated aqueous carbonyl allylation reaction
AUTHOR(S): Tan, Xiang-Hui; Tao, Chuan-Zhou; Hou, Yong-Quan; Luo, Lin; Liu, Lei; Guo, Qing-Xiang
CORPORATE SOURCE: Department of Chemistry, University of Science and Technology of China, Hefei, 230026, Peop. Rep. China
SOURCE: Chinese Journal of Chemistry (2005), 23(3),

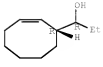
237-241
CODEN: CJOCEV; ISSN: 1001-604X
PUBLISHER: Science Press
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:459780

AB Five- and six-membered cyclic allylic halides were found to be much less reactive than acyclic allylic halides in aqueous allylation reactions. Nevertheless, it was found that SnCl2/Cu was powerful enough to mediate the aqueous allylation reactions involving cyclic allylic halides. Both aliphatic and aromatic aldehydes could be efficiently allylated, and the reaction conditions were mild, simple and safe. The yields were usually 75-97%, and the reaction was erythro selective.

IT 869301-40-6P 869301-45-1P 869301-52-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective allylation of aldehydes by bromocycloalkenes in presence of tin dichloride and copper)

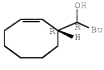
RN 869301-40-6 HCAPLUS
CN 2-Cyclooctene-1-methanol, α-ethyl-, (αR,1R)-rel- (CA INDEX NAME)

Relative stereochemistry.



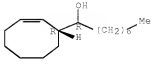

RN 869301-45-1 HCAPLUS
CN 2-Cyclooctene-1-methanol, α-(2-methylpropyl)-, (αR,1R)-rel- (CA INDEX NAME)

Relative stereochemistry.



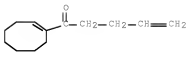

RN 869301-52-0 HCAPLUS
CN 2-Cyclooctene-1-methanol, α-heptyl-, (αR,1R)-rel- (CA INDEX NAME)

Relative stereochemistry.



CC 24-1 (Alicyclic Compounds)
IT 492-70-6P 87938-66-7P 92463-89-3P 124604-50-8P 145510-58-3P
145510-59-4P 145510-60-7P 402517-90-2P 442525-94-2P
869301-43-6P 869301-43-9P 869301-45-1P
869301-48-4P 869301-50-8P 869303-54-0P 869301-53-1P
869301-55-3P 869301-56-4P 869301-57-5P 869301-58-6P
869301-59-7P 869371-37-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective allylation of aldehydes by bromocycloalkenes in presence of tin dichloride and copper)
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:427768 HCAPLUS Full-text
DOCUMENT NUMBER: 140:74527
TITLE: Structure-odor relationship of substituted hepta-1,6-dien-3-ones with green fruity odors
AUTHOR(S): Bajgrowicz, Jerzy A.; Berg-Schultz, Katja; Brunner, Gerhard
CORPORATE SOURCE: Fragrance Research, Givaudan Schweiz AG, Dubendorf, CH-8600, Switz.
SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(13), 2931-2946
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Following an anal. of available structure-activity relationship data on green/galbanum-smelling mols., a series of new 2-substituted hepta-1,6-dien-3-ones and their analogs were prepared and their olfactory properties evaluated. The study allowed to select efficient new odorants-potential substitutes for natural galbanum oil and to generate an olfactophore model for the green/galbanum note.
IT 641630-21-9P
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(structure-odor relationship of substituted hepta-1,6-dien-3-ones with green fruity odours)
RN 641630-21-9 HCAPLUS
CN 4-Penten-1-one, 1-(1-cycloocten-1-yl)- (CA INDEX NAME)



CC 13-6 (Mammalian Biochemistry)
Section cross-reference(s): 24, 30, 62
ST structure odor relationship model dienone
IT Simulation and Modeling
(odor; structure-odor relationship of substituted hepta-1,6-dien-3-ones with green fruity odours)